Amendment to the Claims

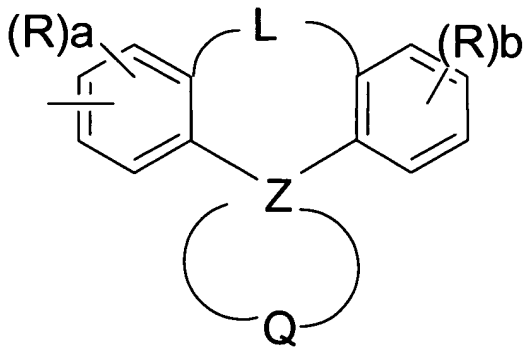
What is claimed is:

1. (Original) A compound having a spiro bond represented by a following general formula (1):

$$(Sp\text{-})_n\ X(\text{-}Y)_m \qquad (1)$$

wherein Sp is a group having a spiro bond represented by a following general formula (2):

(2)




wherein L represents a single bond, $\text{-}(CR'R'')_e\text{-}$, $\text{-}(Si\,R'\,R'')_e\text{-}$,

$\text{-}O\text{-}$, $\text{-}CO\text{-}$ or $\text{-}NR'\text{-}$;

R' and R" each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; e represents an integer of 1 to 10; further R' and R" may be the same with or different from each other;

Z represents a carbon atom, a silicon atom or a germanium atom;

Q represents a group forming a ring structure;

R represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a

substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; when there are plural of R, they may be the same with or different from each other and they may be bond with each other to form a ring structure; **a** and **b** each independently represents an integer of 0 to 4;

X represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted condensed aromatic ring group having 12 to 20 ring carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 ring atoms or a group formed by combining plural of the preceding groups; excluding a case where X is an anthracendiyl group or a polyanthracendiyl group;

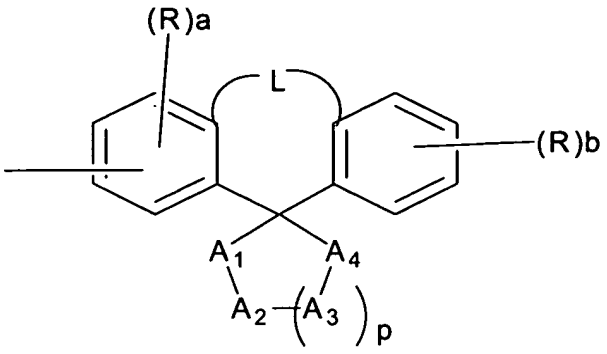
Y represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms and may further having a vinyl-bond and still further may contain a group having a spiro bond represented by the general formula (2);

**n** represents an integer of 1 to 4;

**m** represents an integer of 1 to 2; and

when Sp in the general formula (1) is a spirobifluorenyl group, a case where X has a backbone structure selected from a group consisting of pyrenylene backbone structure, chrysenylene backbone structure and phenanthlene backbone structure is excluded.

2. (Original) The compound having a spiro bond according to Claim 1, wherein Sp in the general formula (1) is represented by the following general formula (3):




(3)

wherein R represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group;

L represents a single bond, - $(CR'R'')_e$ - , - $(SiR'R'')_e$ - , - O - ,

- CO - or - NR' - ;

**a** and **b** each independently represents an integer of 0 to 4;

$A_1$ to $A_4$ each independently represents - CR'R" - , - SiR'R" - , - O - ,

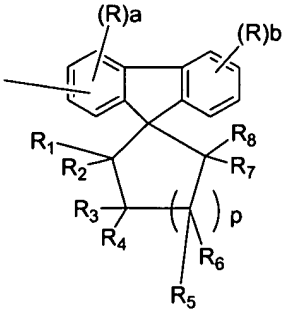
- NR' - or - CO - ;

R' and R" each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; R' and R" may be the same with or different from each other and they may bond with each other to form a ring structure; and

**p** represents an integer of 1 to 10.

3. (Original) The compound having a spiro bond according to Claim 2, wherein at least two adjacent components among $A_1$ to $A_4$ in the general formula (3) each represents - CR'R" - ; R' and R" each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; R' and R" may be the same with or different from each other and they may bond with each other to form a ring structure; and
the adjacent R's, the adjacent R"s or both R' and R" will bond saturatedly or unsaturatedly forming a ring structure having 4 to 50 carbon atoms as a result.

4. (Original) The compound having a spiro bond according to Claim 1, wherein Sp is a group represented by any one of the following general formulae (4) to (7):

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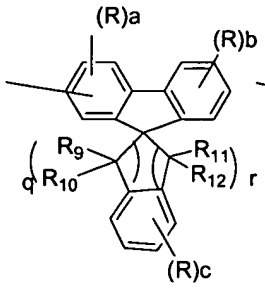


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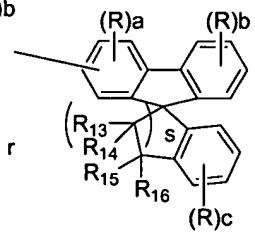


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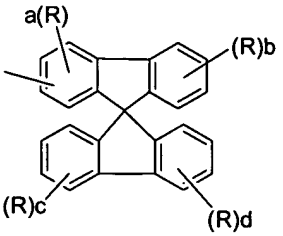



( 7 )

wherein R represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon

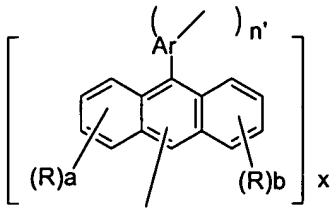
atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 ring atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; when there are plural of R, they may be the same with or different from each other and they may be bond with each other to form a ring structure; and

$R_1$ to $R_{16}$ each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; at least two among $R_1$ to $R_{16}$ may bond each other to form a ring structure;

**a**, **b**, **c** and **d** each represents an integer of 0 to 4 respectively;

**p**, **q**, **r** and **s** each represents an integer number of 1 to 10 respectively;

wherein X is a group represented by any one of the following general formulae (8) to (25) or a group made by combining at least two of groups represented by the following general formulae (8) to (25):

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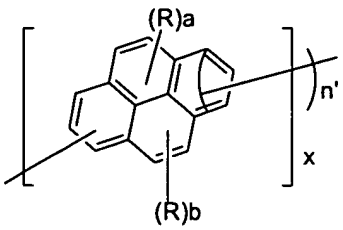


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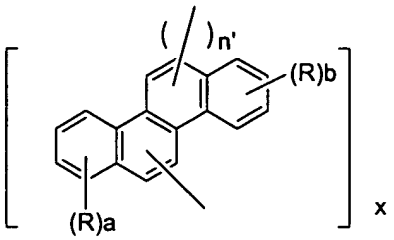


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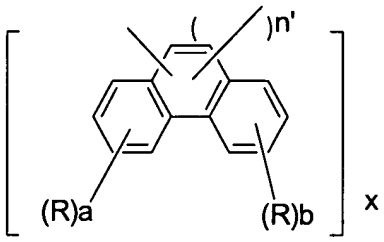


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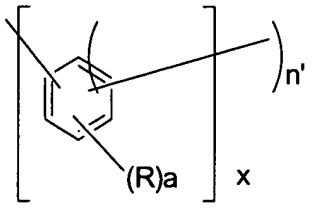


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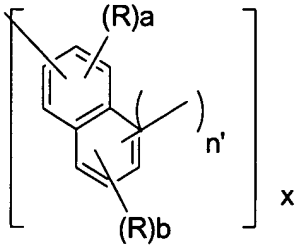


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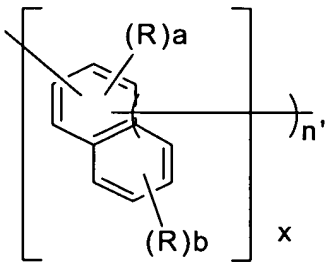


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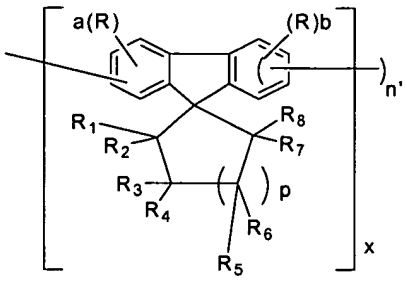


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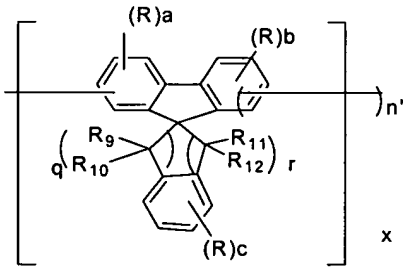


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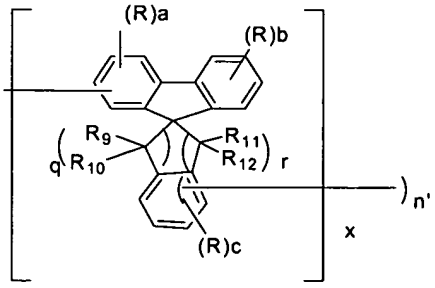


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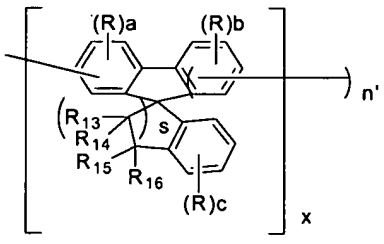


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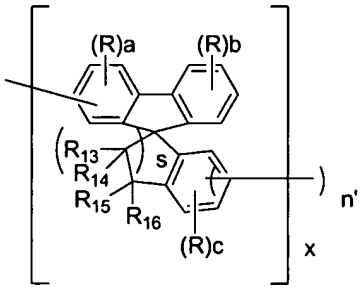


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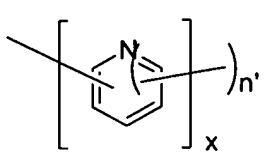

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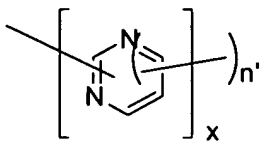

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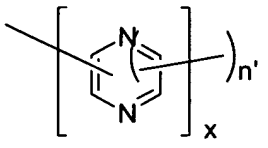

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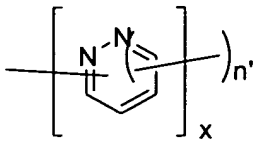

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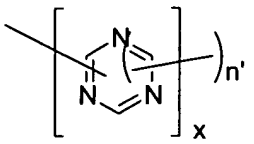

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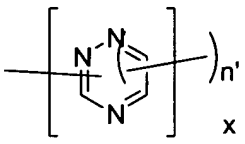


(25)

wherein R, $R_1$ to $R_{16}$, **a** to **d** and **p** to **s** are the same as the foregoing description;

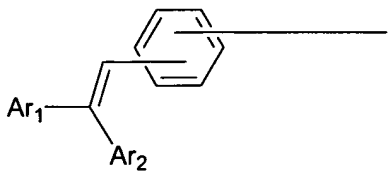
wherein Ar represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 ring atoms, or a group made by combining plural of those preceding groups; excluding a case where Ar is an anthracendiyl group or a polyanthracendiyl group;

**n'** represents an integer of 0 to 5;

**x** represents an integer of 1 to 20; and

when Sp is a group represented by the general formula (7), a case where X is a group represented by any one of the general formulae (9) to (11) is excluded.

5. (Original) The organic electroluminescence device according to Claim 4, wherein Y in the general formula (1) is a group represented by a general formula (26):




(26)

wherein $Ar_1$ and $Ar_2$ each independently represents a substituted or unsubstituted aromatic group

having 6 to 50 ring carbon atoms respectively and further, $Ar_1$ and $Ar_2$ may be the same with or different from each other.

6. (Currently Amended) A compound having a spiro bond according to ~~any one of Claims 1 to 5,~~ claim 1, which is a light emitting material for an organic electroluminescence device.

7. (Currently Amended) A material for forming a luminous coated film which comprises the compound having a spiro bond according to ~~any one of Claims 1 to 5.~~claim 1.

8. (Currently Amended) An organic electroluminescence device which comprises at least one organic thin film layer sandwiched between a pair of electrode consisting of an anode and a cathode, wherein the organic thin film layer comprises the compound having a spiro bond according to ~~any one of Claims 1 to 5.~~ claim 1.

9. (Original) The organic electroluminescence device according to Claim 8, wherein said light emitting layer comprises the compound having a spiro bond.

10. (Original) The organic electroluminescence device according to Claim 8, which emits bluish light.

11. (Original) The organic electroluminescence device according to Claim 9, which emits bluish light.